

Study Guide

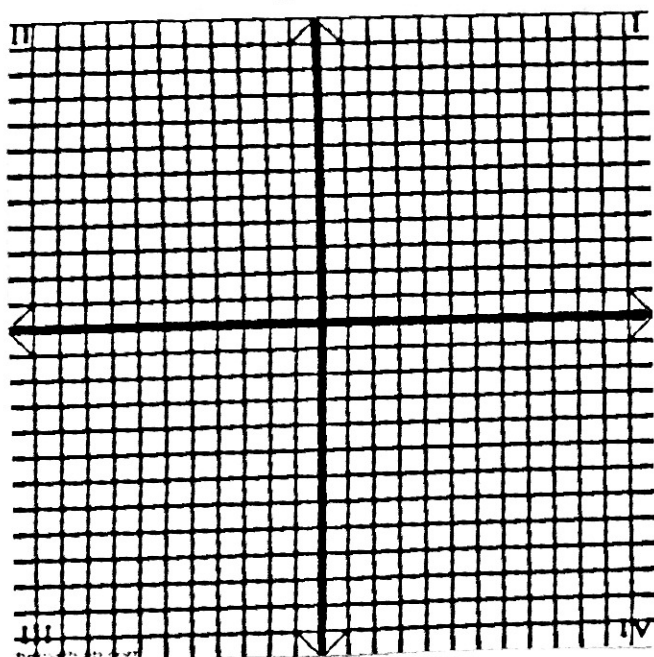
REL. 6 _____

name _____

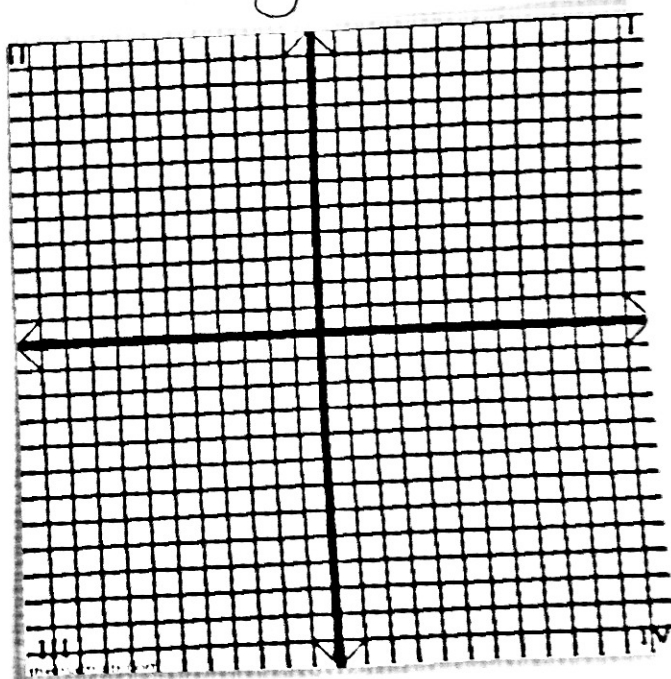
Solving Systems of Eq.s

Solve by graphing. State what kind of solution it is & if there is 1, name it.

1. $y = -2$
 $4x + y = 2$



2. $y = \frac{1}{2}x$
 $2x + y = 10$



Solve using substitution.

3. $y = 2x - 2$
 $y = x + 2$

$$4. \begin{aligned} x - 5y &= 36 \\ 2x + y &= -16 \end{aligned}$$

$$5. \begin{aligned} \frac{1}{3}x - y &= 3 \\ 2x + y &= 25 \end{aligned}$$

$$6. \begin{aligned} y &= 6x \\ 2x + 3y &= -20 \end{aligned}$$

$$7. \begin{aligned} x + y &= 8 \\ 7.25x + 5.5y &= 52.75 \end{aligned}$$

$$8. \begin{aligned} x + 5y &= 4 \\ 3x + 15y &= -1 \end{aligned}$$

$$9. \begin{aligned} x - 5y &= 10 \\ 2x - 10y &= 20 \end{aligned}$$

$$10. \begin{aligned} x &= 2y - 3 \\ x &= 2y + 4 \end{aligned}$$

$$11. \begin{aligned} x - 2y &= -1 \\ 3y &= x + 4 \end{aligned}$$

Solve by elimination; add/subtract.

$$12. \begin{aligned} 3m - 2n &= 13 \\ m + 2n &= 17 \end{aligned}$$

$$13. \begin{aligned} 2m - 5n &= -6 \\ 2m - 7n &= -14 \end{aligned}$$

Solve by elimination; multiplication

$$14. \begin{aligned} 4x - 3y &= 12 \\ x + 2y &= 14 \end{aligned}$$

$$15. \begin{aligned} 7x + 2y &= 2 \\ 2x - 3y &= -28 \end{aligned}$$

Solve by elimination; choose a method.

$$\begin{aligned} 16. \quad 2x + 3y &= 10 \\ 5x + 2y &= -8 \end{aligned}$$

$$\begin{aligned} 17. \quad 8 - 7y &= 18 \\ 3x + 7y &= 26 \end{aligned}$$

$$\begin{aligned} 18. \quad 4x + 3y &= -2 \\ 4x + 3y &= 3 \end{aligned}$$

$$\begin{aligned} 19. \quad -6x - 2y &= 14 \\ 6x + 8y &= -20 \end{aligned}$$

$$\begin{aligned} 20. \quad 3x - 4y &= 17 \\ 4x + 5y &= 2 \end{aligned}$$

$$\begin{aligned} 21. \quad 6m - 8n &= 3 \\ 2m - 8n &= -3 \end{aligned}$$